



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :
Kazurou OKUZAWA et al. : Docket No. 99-0947A
Serial No. 09/380,812 : Group Art Unit 1733
Filed November 23, 1999 : Examiner Geoffrey L. KNABLE
SYNTHETIC CHLOROPRENE RUBBER
ADHESIVE COMPOSITION AND
PROCESS FOR PRODUCING SPEAKER
BY USING THE SAME

DECLARATION UNDER 37 CFR 1.132

Kazurou OKUZAWA declares:

That his education and professional background are as follows:

He graduated the Faculty of Engineering of Toyama University in March, 1971. He entered employment with Matsushita Electric Industrial Company, Limited in April 1991. He had studied adhesive materials used in the production process of the electro-acoustic transducers from 1971 to 2001.

That he has conducted the tests to demonstrate the comparison between the composition of the present invention and the composition disclosed in Sato et al. (US 5,735,727):

The adhesive composition used for the comparison is the same with that shown in Table 3 of the present invention, except 50 : 50 ratio mixture of carboxylated chloroprene rubber and chloroprene rubber is employed instead of 100 PHR of carboxylated synthetic chloroprene rubber. The specific compositions of the test samples followed the composition shown in Table 1, example No. 2 (result No. 5) and example 3 (result No. 6). The test was performed as the same with the method described with regard to Table 2. The test results are shown in the attached "Table-comparison".

That from these tests he concludes the SYNTHETIC CHLOROPRENE RUBBER ADHESIVE COMPOSITION of the present invention has excellent adhesive strength, high temperature adhesive strength and heat durability in comparison with the composition disclosed in Sato et al. (US 5,735,727) even if the main component is changed to 50 : 50 ratio mixture of carboxylated chloroprene rubber and chloroprene rubber.

He further declares that all statements made herein of his own knowledge are true, and that all statements on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Date

Kazuo Okuzawa
Signature

Table-comparison

(N/25mm)

Test condition	adhesion strength (180° peeling off)				Test method
	3	4	5	6	
Adhesion after 48 hours under normal condition	42	39	30	32	JIS K6854
Adhesion after heat aging (70 °C × 96 hours)	45	45	34	35	JIS K6854
Adhesion under high: temperature (80 °C)	35	32	25	28	JIS K6854

3, 4 : test data shown in Table 2 of the specification

5 : comparison test data, where 100 parts of carboxylated chloroprene rubber of sample No. 3 (shown in Table 1 of the specification) is replaced with 50 : 50 of chloroprene rubber and carboxylated chloroprene rubber

6 : comparison test data, where 100 parts of carboxylated chloroprene rubber of sample No. 4 (shown in Table 1 of the specification) is replaced with 50 : 50 of chloroprene rubber and carboxylated chloroprene rubber